

# Graphics

*Path:* /NEBULA1/Graphics

*Description:* Graphics viewers, utilities etc...

*Quad-FAT:* 56 Motorola/Intel/PA-RISC/SPARC

*Tri-FAT:* 3 Motorola/Intel/PA-RISC

*Dual-FAT:* 5 Motorola/Intel

*Motorola:* 1

*Intel:* 3

*PA-RISC:*

*SPARC:*

*Total Apps:* 68

## Converters

## **/aa\_m68k\_Intel\_HP\_Only**

ToMPEG.0.8

Version 0.8 by Robert F. Cahalan

This program reads a sequence of files representing N frames in an animation sequence, translates each to PPM format, and then compresses the resulting sequence into a single MPEG movie file, using the "mpeg-encode" program

Motorola/Intel/HP

## **/Converters**

Convert\_MacPaint

Version 1.1 by David John Burrowes

This utility has one purpose: to convert Macintosh MacPaint files to eps files.

Motorola/Intel/PA-RISC/SPARC

Convert\_PICT

Version 1.2 by David John Burrowes

Convert PICT allows you to convert Macintosh image files in the PICT graphics format (either PICT I or II) to the eps format on the NeXT.

Motorola/Intel/PA-RISC/SPARC

Filter-1.1

Version 1.1 by Scott Roy

As shipped, Filter registers itself for GIF and JPEG file types using all the standard file suffixes.

Includes source code

Motorola/Intel/PA-RISC/SPARC

ImageConverter

by Varun Mitroo, MD

ImageConverter is a NEXTSTEP program designed for converting 12 bit grayscale radiographic images into TIFF format.

Motorola/Intel/PA-RISC/SPARC

jpeg

by David Koski

jpeg will convert a .gif file to a .tiff file using jpeg compression.  
Unix command line program.  
Includes source code  
Motorola/Intel/PA-RISC/SPARC

### McFilters

Version 2.0 by Michael McCulloch  
A GIF image conversion filter service. It allows you to convert GIF images for preview and use in any NeXTSTEP program that correctly implements filter service recognition.  
Motorola/Intel/PA-RISC/SPARC

### TIFFandEPS

by Sharon Zakhour, NeXT Developer Support Team  
This example shows how to open EPS or TIFF images and save them back out as EPS or TIFF -- converting the image in the process.  
Motorola/Intel/PA-RISC/SPARC

## Misc

## **/aa\_m68k\_Intel\_HP**

abSIRDitieS.pkg

Release 3.2 - Version 1.0 - Oct 1994 by Mark G. Tacchi

abSIRDitieS is a freeware application that allows you to create single image random dot stereograms (SIRDS) with NEXTSTEP.

Motorola/Intel/PA-RISC

## **/aa\_m68k\_Only**

NDCamera.0.21

Release 0.21, 25.07.1995 by Thomas Engel

This is a NeXTdimension based auto frame grabber which might help you to create NeXTIME movies or other image sequences.

Includes source code

Motorola

## **/Misc**

AnimTester

by Don\_Yacktman

A little animation example

Includes source code

Motorola/Intel/PA-RISC/SPARC

BackBounce

by Scott Hess

This program stems from my experiences with IconBounce, and Window tiers. It is, overall, just a simple modification of the IconBounce program.

Includes source code

Motorola/Intel/PA-RISC/SPARC

BitMapTest

Version 1.1 by Carl F. Sutter

Moving Butmaps Demo

Includes source code

Motorola/Intel/PA-RISC/SPARC

Capture

Capture is a program that allows you to use your video in on a NeXTdimension to grab an animation. It does not implicitly have the ability to sync it's grabbing to any internal or external clocks.

Includes source code.

(I know, I know Intel does not support NXdim but maybe the code can teach someone something.)

Motorola/Intel/PA-RISC/SPARC

ColorLab

by Izumi Ohzawa

Shows color specified by Color Panel in numbers in HSB, RGB, CMYK.

Includes source code

Motorola/Intel/PA-RISC/SPARC

CompressOmatic.1.0

Version 1.0 - Sun 03. March 1996 by stefan@interpc.de

You can open a TIFF image and compress it in several formats. In a second view you get the output result and an idea of the final quality. Some information about sizes and compression speed are shown in the information area.

*Used with permission*

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Flipper

by Lee Sailer

Flipper is a simple image viewer and page flipper. That is, you can read in a number of images (TIFF, EPS, PS) and Flipper will riffle through them, producing an animation effect.

Includes source code

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GifOmatic.1.2

Version 1.2 - Sun 03. March 1996

GifOmatic is intended to open NeXT TIFF files, replace and pick colors and save them as WWW-compliant GIFs, with transparency and interlaced effect.

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IconBounce



by Scott Hess

This is great example on how to animate an application icon

Includes source code

Motorola/Intel/PA-RISC/SPARC

## **/Misc/IconBuilder**

ScaleFilter (Bundle for IconBuilder)

by Linus Upson

To scale an image, drag out a rectangle with the selection tool

Includes source code

Motorola/Intel/PA-RISC/SPARC

SilkScreen

v1.0 March, 1993 by Toby Paterson

SilkScreen is a filter which changes pixels of one colour to another:

all pixels in the selection are scanned, and any pixels which are

sufficiently close to the source colour are replaced by the

destination colour. I use it for those cases where the fill operation

isn't sufficient (on dithered colours, for example) or when there are

a few pixels whose colour I want to change and which are scattered throughout the image.

Includes source code

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## **/Misc**

Morph.1.11

Version 1.11 by Martin Wennerberg

Transformations between images.

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NeXTcontour\_1.7

Version 1.7 by Thomas H. Pulliam

A contour plot program for the NeXT based on Pieter Bunings' PLOT3D package for Computational Fluid Dynamics. The code has a pretty extensive help selectable from the interface.

Includes source code

Motorola/Intel/PA-RISC/SPARC

### OfMiceAndMen

Version 2.1 by S. Chamboredon

The way OMAM works is easy to understand... You have up to ten mice. When you click on the "Display" button, each mouse runs towards its neighbor. Each line represents the mouse movement...

Includes source code

Motorola/Intel/PA-RISC/SPARC

### Wood.0.72

Wood uses an horizontal representation for a tree which makes it especially good in handling tree nodes with large names (labels).

Includes source code

Motorola/Intel/PA-RISC/SPARC

### Zoom.3.0

Version 3.0 by Sven Lehmann

An application for scaling images.

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# Multimedia

## **/aa\_m68K\_Intel\_Only**

MovieShow

Version 1.0 by Scott Bender and Harmony Data Systems

MovieShow is a simple animation viewer for NeXTStep. It plays Autodesk Animatorä FLI and FLC files.

Motorola/Intel

## **/Multimedia**

Movie

Version 2.51 June 19 by Patrick J. Flynn

Display .anim tiff animation files.

Includes source code

Motorola/Intel/PA-RISC/SPARC

MPlay

Version 2 by Paul A. Griffin

An MPEG movie player.  
Includes source code  
Motorola/Intel/PA-RISC/SPARC

## Plotting

### **/aa\_Intel\_Only**

CRSolver

A Conformal Geometry Explorer

Version 4.1.0 by Paul Burchard, Snag Hoon Chin, David Ben-Zvi  
and Eugenio Durand  
Intel

Gnuplot.app

Version 1.2. as maintained by Robert Davis

The NeXTSTEP Front End for gnuplot, a general purpose  
graphing and plotting application capable of plotting mathematical  
expressions or data from a file, in 2 or 3 dimensions. This

application is entirely self-contained and requires no prior installation or knowledge of gnuplot.

Includes source code

Intel

VectorField.app

Version 0.6 by Dick Silbar

Application to display two-dimensional projections of vectors at a number of grid point in a plane.

Intel

### **/aa\_m68k\_Intel\_HP\_Only**

Abscissa1.8.3

Version 1.8.3 by Rödiger Bröhl

Abscissa is a scientific 2D plot program.

*Used with special permission*

Motorola/Intel/PA-RISC

### **/Plotting**

GnuTerm\_1.1a

Version 1.1a ported by Robert Lutwak

GnuTerm is the most advanced Object-Oriented gnuplot output filter currently available for NeXTstep computers. The full-featured user interface and underlying Distributed Objects Framework provide an intuitive and powerful, easy-to-use system with capabilities, functionality, and integration.

Includes source code

Motorola/Intel/PA-RISC/SPARC

Lyapunov Space Generator

Version 1.0 by Don Yacktmann

Lyapunov is a program which plots a fractal space known as a "Lyapunov Space" (hence the odd name). This space is generated by a simple iterated equation, commonly used for predicting populations

Includes source code

Motorola/Intel/PA-RISC/SPARC

NXplot3d.3.2

Version 3.2 by Steve Ludtke

Includes source code

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nxypplot

Version 1.88 June 1993 by Dennis Jespersen and

Tom Pulliam

A 2-D Plotting Program

Includes source code

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QuickPlot

by Fred Richards.

QuickPlot is a simple plotting tool meant to provide easy 2-D plotting of ASCII data files. Files are assumed to contain two columns of ASCII numbers (integers or floating-point values), where the columns should be separated by a TAB or SPACE character.

Includes source code

Motorola/Intel/PA-RISC/SPARC



RatMandelbrot

by Will Gilbert

A Fractal program that calculates sections of the Mandelbrot Set of Quadratic Rational Functions. It comes with various preset values that give interesting fractals and also allows you to create new fractals.

Includes source code

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SciPlot (Package)

Version 4.01 Quad FAT by Michael Wesemann

A scientific 2D plotting and manipulation program.

Includes Demo file package

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## **PostScript**

Bezier

by Scott Hess

A bezier curve application

Includes source code

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EnhancedYap

Includes source code

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Pencil

Version 1.0 by Florian Marquardt.

Pencil is a vector-oriented drawing program. Its most remarkable feature is that new drawing methods can be added to it in the form of postscript language procedures (even at run-time).

Includes source code

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## **Viewers**

## **/aa\_m68k\_Intel\_Only**

PingPong.app

Version 1.21 by Willem van Schaik

Avery simple PNG (Portable Network Graphics) viewer  
for NEXTSTEP.

Motorola/Intel

pockedVideoViewer

Version 1.0 by Rene Michalek

Tool for previewing and playbacking FLI and FLC digital video files  
(developed by Autodesk animator software).

Motorola/Intel

ToyViewer1.2

Ver.1.2 (Nov. 1995) by Takeshi Ogihara

Read and display image files in following formats: tiff, eps, gif, bmp, pcx,  
jpg, pcd, pnm (ppm, pbm, or pgm), and mag and many other graphic  
functions.

Includes source code

Motorola/Intel

## **/Viewers**

cdcomp

by Robert Elder

cdcomp is used to view the NASA images on the Voyager CD-ROMs

Include source code

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FastTIFF

Version 1.0 by Oliver Unter Ecker

Display a tiff file

Includes source code

Motorola/Intel/PA-RISC/SPARC

FastView.app

Version 1.3 by David Koski

A JPEG viewer

Motorola/Intel/PA-RISC/SPARC

ImageViewer.app

Version 0.9k by Lennart Lovstrand

This is the ultimate graphic file viewer it can load/save in many different formats. Here's a brief list: atkras, gif, itex, pbm, pgm, ppm, jpg, macp, mtek, eps, ps, ras, rle, icon, tiff, face, xbm, ilisp, brush, ais.

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Magnify

Version Nov 21 by C.D. Lane

A magnifying glass on your NeXT

Includes source code

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Motion.0.9

Version 0.9 by Martin Wennerberg

Motion is yet another simple hack to display yet another simple and slow animation format.

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## MovieShow1.1

Version 1.1 by by Scott Bender and Harmony Data Systems

MovieShow is free software that plays Autodesk Animator FLC and FLI files.

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## Omnimage

Version 3.2.1

The Omnimage application is a very quick image viewer. If

OmnimageFilter is also installed, Omnimage can open, view, and convert 30 or so different image types.

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## OmniPDF.1.7

Version 1.7 by Lighthouse Design

View Adobe PDF file on your NEXTSTEP computer.

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## pCD

A Photo CD Viewer

Version 0.3.4 by Hadmut Danisch  
Includes source code  
Motorola/Intel/PA-RISC/SPARC

### QuickViewer

Version 1.0 by Edwin Tam  
Loads and displays RIB, EPS,PS,TIFF graphic files  
Includes source code  
Motorola/Intel/PA-RISC/SPARC

### PDFView.1.41

Version 1.31 by Gunther Furhaller  
PDF Viewer for NEXTSTEP  
Motorola/Intel/PA-RISC/SPARC

### raytracers

Here's two simple ray-tracers that I've taken from public domain archive sites and compiled successfully on my NeXT. I've also included a Viewer for the output files that will even convert the files to .tiff! (Just be sure that the output files have a '.pic' extension, and then the viewer

program, if on your current search path, will be automatically launched when you double click a '.pic' file.)

Includes source code

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VideoStreamV1.0

Version 1.0 by Bill Rozzi

AVI decoder

Includes source code

Motorola/Intel/PA-RISC/SPARC

ViewGif2

by Carl F. Sutter

A GIF graphic viewer

Includes source code

Motorola/Intel/PA-RISC/SPARC

## **2D\_3D**



Jessycad1.45

Version 1.45 by olivchap@net.asi.f

Jessycad is a 2dCAD software running on Nextstep

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ShaderInspector

Version 1.0.1 by Tom Dilligan

This is a basic program written to allow the user to look at and test  
RenderMan shaders.

Includes source code.

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Tester3D

Source code from 3D kit article for NeXT Users' Journal.

Includes source code

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ThreeD\_06

Version 0.60 - September, 1995 - by Kieran Jones

ThreeD is a basic three-dimensional scene modeling and rendering program based on NeXT's 3DKit and Pixar's RenderMan.  
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Tree3D\_3.1

Version 3.0(2) by Allen King

Display a 3D Tree constructed with a simple algorithm, using the 3DKit.  
Includes source code

Motorola/Intel/PA-RISC/SPARC

2DLab

Version 2.0 by Patrick Flynn

An interactive tool for visualizing some common geometric algorithms.  
Includes source code

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